## SEMICONDUCTOR ACCELERATION SEN-SOR

## **Abstract**

A semiconductor acceleration sensor includes anon-single-crystal-silicon-based substrate, an insulating beam structure
having a movable section and a stationary section, at least one
piezoresistor positioned on the beam structure, an insulating
supporter positioned on the non-single-crystal-silicon-based
substrate for fixing the stationary section of the beam structure
and forming a distance between the beam structure and the nonsingle-crystal-silicon-based substrate, and a thin film transistor
(TFT) control circuit positioned on the non-single-crystal-silicon-based substrate and electrically connected to
the piezoresistor and the beam structure.